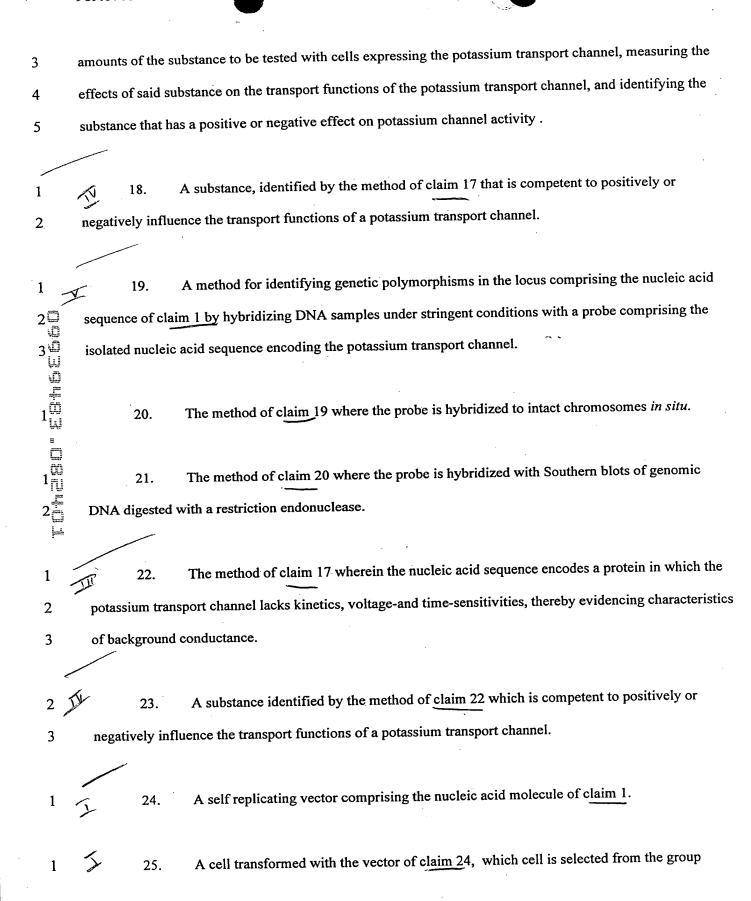
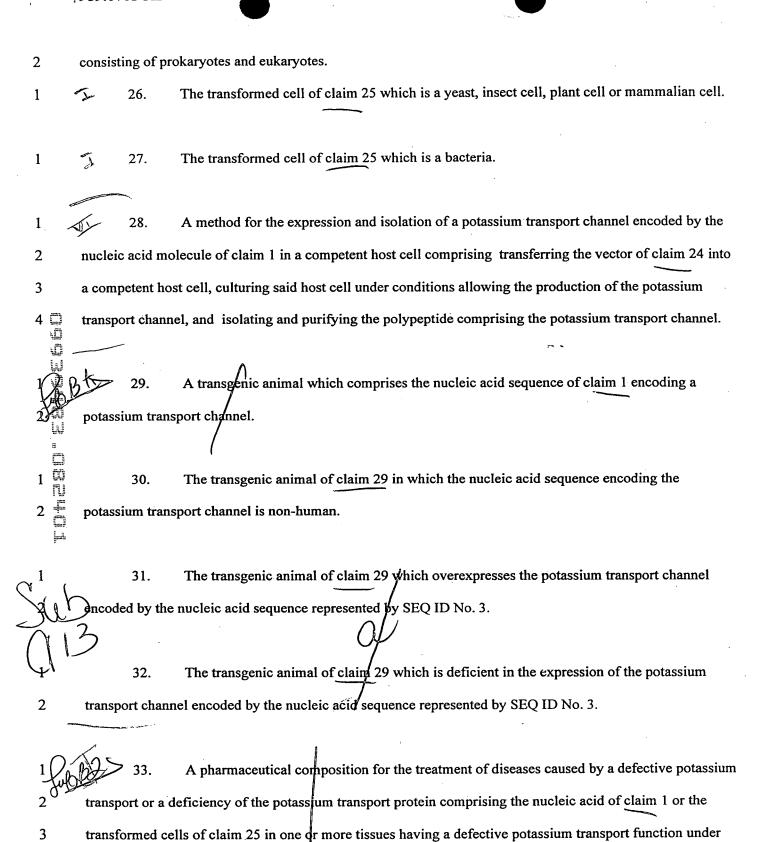
CLAIMS

An isolated and purified nucleic acid molecule coding for a protein having a potassium (K+) 1. 1 permeable membrane, comprising more than one P domains and three, four, five or more than six 2 transmembrane segments. 3 The nucleic acid molecule of claim 1 coding for a protein wherein the number of P domains 2. 1 is two and the number of transmembrane segments is four. 2. The nucleic acid molecule of claim 1 which is human. 3. 14 14 14 The nucleic acid molecule of claim 1 which is a cDNA copy of a 2.6 kilobase transcript 如 2址 expressed at high levels in the pancreas and placenta, and at lower levels in the brain, lung, prostate, heart, 3 1 1 kidney, uterus small intestine and colon. The nucleic acid sequence of claim 1 which codes for a protein which comprises the 5. sequence represented by SEQ ID No. 4. 2 The isolated and purified nucleic acid sequence of claim 1 which codes for a protein which 6. 1 comprises the sequence represented by SEQ ID No. 4 or the functionally equivalent sequence thereof which 2 comprises two P domains and four transmembrane segments. 3 An isolated and purified nucleic acid sequence of claim 2 which comprises our open reading 1 7. frame (ORF) of 1185 nucleotides. 2 The isolated and purified nucleic acid sequence of claim 7 which is human. 8. 1



4



conditions which allow for the expression of the potassium transport channel in said tissue.